

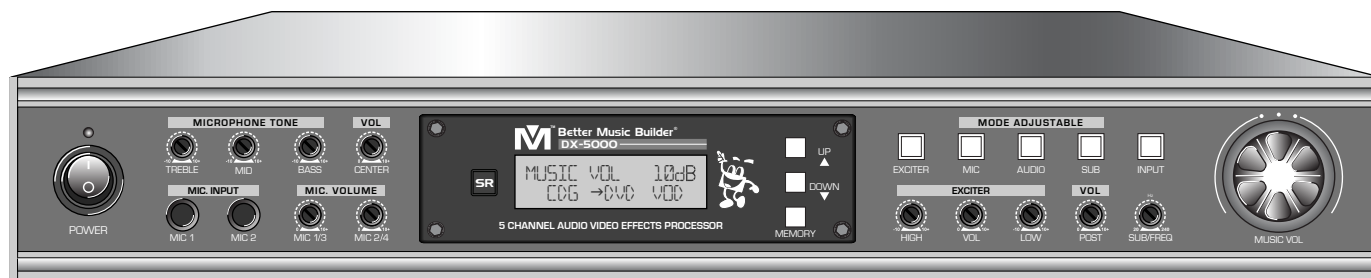


OWNER'S MANUAL

5-Channel Audio Video Effects Processor

DX-5000

Operating Instructions

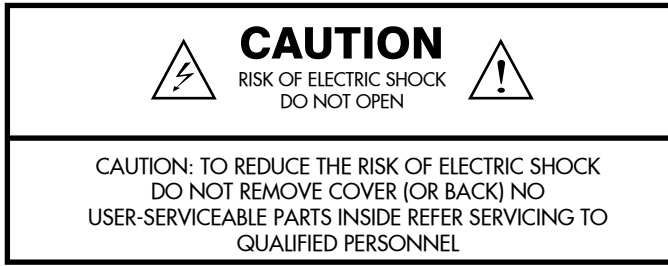


Thank you for purchasing this unit.
To make full and effective use of this
unit, please read this Owner's
Manual carefully before operating it.
After reading this manual, retain this
booklet together with the Warranty
Card for future use in case of
maintenance or troubleshooting.



Passionate about Music

www.BetterMusicBuilder.com



SAFETY INSTRUCTIONS

1. Read Instructions: All the safety and operation instructions should be read before this Better Music Builder product is operated.

2. Retain Instructions: The safety and operating instructions should be kept for future reference.

3. Warnings: All warnings on this product's operating instructions should be followed.

4. Water and Moisture: This product should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, swamp, etc.

6. Cleaning: Clean only with a dry cloth.

7. Ventilation: This product should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

8. Heat: This product should be stayed away from heat sources such as radiators, or other devices producing heat. Always keep from direct sunlight.

9. Power Sources: This product should be connected to a power supply only of the type described in this operation instructions or as marked on the unit itself.

10. Power Cord Safety: Power supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them. Please pay particular attention to cords plugs, convenience receptacles, and the point where they exit this product. Power cords should be kept away from children.

11. Repair Service: This product should be serviced

only by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen on, or liquid has spilled into this product; or
- C. This product has been exposed to rain; or
- D. This product does not appear to operate normally or exhibits a marked change in performance; or
- E. This product has been dropped, or its chassis damaged.

12. Do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent electric shock.

13. Grounding or Polarization: Precautions should be taken so that the grounding or polarization means of this product is not defeated.

14. Power Precaution: Unplug this product during lightning storms or when unused for long periods of time. Note that this product is not completely disconnected from the AC power, even if the power switch is in the OFF position.

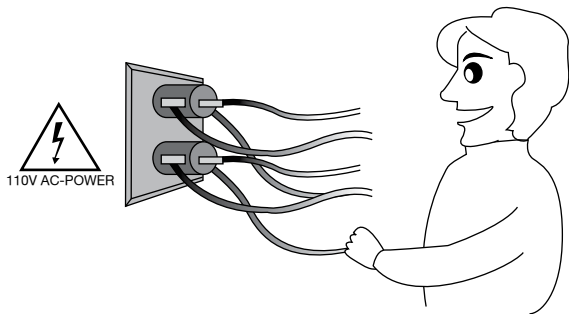
15. This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the US Department of Communications.

16. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) have specified the permissible noise level exposures shown in the following chart.

According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent a permanent hearing loss if exposure is in excess of the limits set forth here.

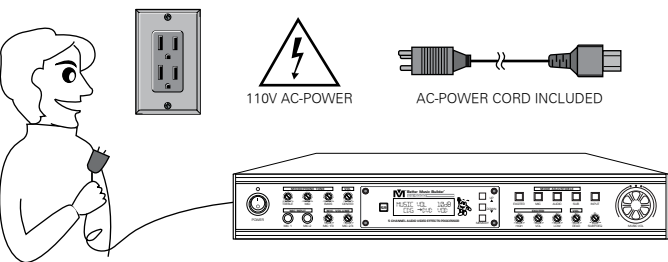
Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



AC-Power Sources

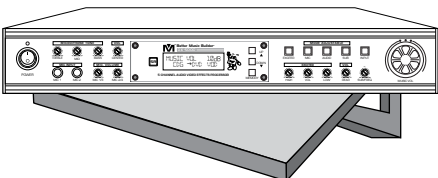
This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.



An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

Safety Cautions

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the product. Use only a cart stand tripod, bracket, or table recommended by the manufacturer.



Three-wire grounding type ac plug:

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not try to install by yourself.

Duration Per Day In Hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	Patrice screaming at Ron about deadlines
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

WARNING- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

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INTRODUCTION

Thank you for choosing the Better Music Builder DX-5000 Audio/Video Effect Processor. We appreciate your confidence in this innovative product. This product is designed by our talented engineering team with many years of experience in audio equipment design. Our engineering team uses the state-of-the-art audio technology to design this product. DX-5000 is a Central Processing Unit (CPU)-controlled machine with five channels to maximize the sound quality and effects.

DX-5000 is the second generation CPU audio/video processor with five-channel sound effects to produce the following special features.

- ❖ Vocal from the center speaker.
- ❖ Special effect adjustments for different microphone tones (i.e. Delay, Repeat and Echo) in both front and rear speakers. This would give you new audio experience.
- ❖ Built-In software programming to allow computer to operate easily.
- ❖ Three digital sound effects for customization.
- ❖ Four microphones input at the same time.
- ❖ Special effects for microphone including strengthening the delay, repeat and echo.
- ❖ Special adjustment and customization for digital music key.
- ❖ Both bypassing and non-bypassing XLR balance functions for audio signals.

DX-5000 is suitable for audio use by church, school, company conference, café. It is excellent for Karaoke use and equipment rental.

Features

- ❖ Type: DSP (Digital Sound Processor)
- ❖ 4 kinds of DSP Karaoke effects: Stereo effects, echo effects, two effects mixed with fixed echo return times (non-adjustable), adjustable fixed effects setup by manufacturer. Parameters cannot be adjusted.
- ❖ High performance 24-bit multi-engine effect process
- ❖ Discrete mic/line input sates with soft mute +48 phantom power
- ❖ Ultra-wide bandwidth from 2 Hz to 200 kHz for open sound

- ❖ Music tone with bass +/- 10dB and treble +/- 10dB
- ❖ High-performance 24-bit dual-engine Feedback Destroyer
- ❖ Two software engines allow independent or coupled functions on left and right channels on lines preamplifier
- ❖ Single-Shot mode automatically searches and attenuated feedback frequencies and locks the filter until manually reset
- ❖ Music modulation with 9-step key control and adjustable up and down effects for selecting
- ❖ Music volume lock for locking up the function of super bass on and off
- ❖ 2-Way stereo crossover
- ❖ 24 dB/octave, state-variable Linkwitz-Riley filters for precise frequency separation
- ❖ Absolutely flat summed amplitude response, zero phase difference
- ❖ Separate subwoofer output with independent frequency control
- ❖ The subwoofer volume can be adjusted from 00 dB to the maximum 62 dB
- ❖ On/Off setting for subwoofer
- ❖ Subwoofer auto cut adjustable the parameters from 00dB to 50 dB
- ❖ Dynamic or condenser microphone limiter effectively protects your equipment from overload
- ❖ Microphone reverb (echo) time delay and repeat adjusting for parameters between 40 mS to 230 mS (130 default)

SAFETY PRECAUTIONS

Selecting fine audio equipment such as the unit you've just purchased is only the first step to your musical enjoyment. Now it's time to consider how you can maximize the fun and the safety of your new equipment. We want you to get the most out of your equipment by playing it at a safe level without affecting your hearing. Sound can be very harmful. Over time your hearing "comfort level" adapts to higher volumes of sound. What sounds "normal" can actually be loud and harmful to your hearing. Therefore, please guard against this by setting your equipment at a safe level before your hearing adapts. To establish a safe level, you can start your volume control at a low setting, then slowly increase the sound until you can hear it comfortably and clearly. If used wisely, your new sound equipment will provide you a pleasant experience in music. Since hearing damage from loud noise is often undetectable until it is too late, we recommend you avoid prolonged exposure to excessive noise. The following noises can be dangerous under constant exposure. Therefore, please be cautious with the dB level when playing your new equipment.

Decibel Level

120 dB

140 dB

180 dB

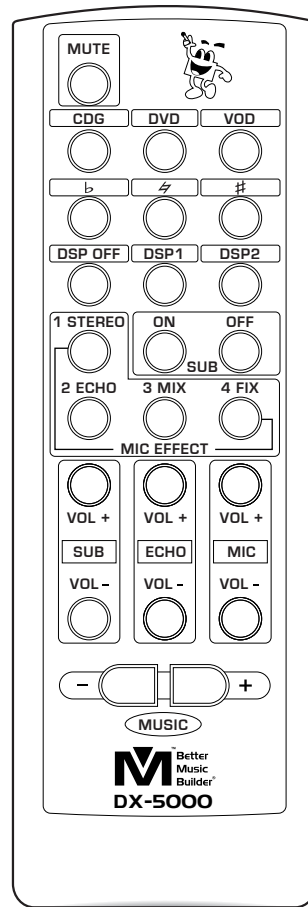
Example

Rock band concert in front of speakers, thunderclap
Gunshot blast, jet plane
Rocket launching pad

SPECIFICATIONS

Music Input Section	
S/N Ratio.....	>90dB
THD.....	0.01%
Input Sensitivity/Impedance.....	0.707V/47k. ohm
Frequency Response.....	20Hz~20kHz ±2dB
Max. Output.....	4Vpp/60W
HF (increase/attenuate).....	±10dB
LF (increase/attenuate).....	±10dB
Key Control.....	±4dB
Super Bass (SUB): THD.....	0.07% 20Hz~15kHz
Mic. Input Section	
S/N Ratio.....	>80dB (effect on)
THD (effect off).....	0.04% 50Hz~16kHz
Frequency Response.....	50Hz~20kHz ±3dB
Input Sensitivity/Impedance.....	100mv~500mv/4.7KW
Equalize	
Low.....	100Hz±5dB
Middle.....	1kHz±5dB
High.....	10kHz±5dB
Standard Power.....	AC 120V/60Hz
Power Consume.....	35 W
Weight.....	6 Kg (13.23 LBs)
Dimensions (WxHxD).....	17x3x13.25 (inches)

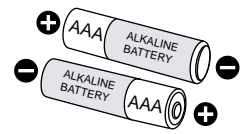
PACKAGE ACCESSORIES



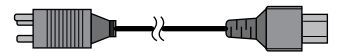
Remote control one unit



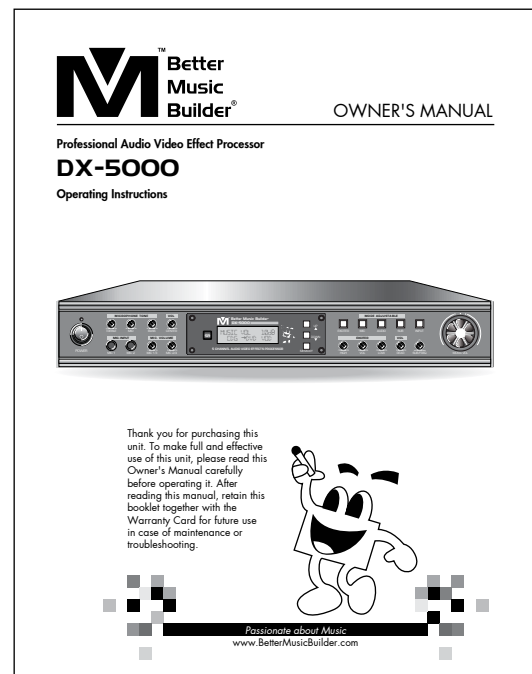
Consumer survey card
<Mail in U.S.A. only>



Battery size: AAA (R6 1.5 V)

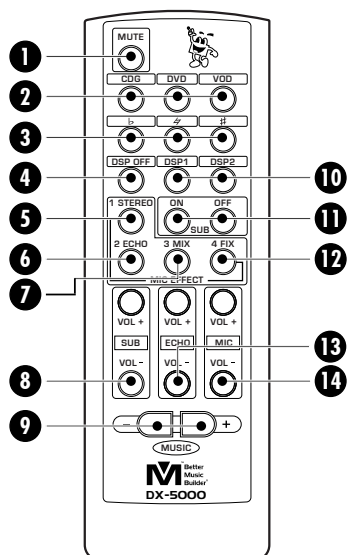


AC power cable (6 feet)
United States (2M) to IEC (F)



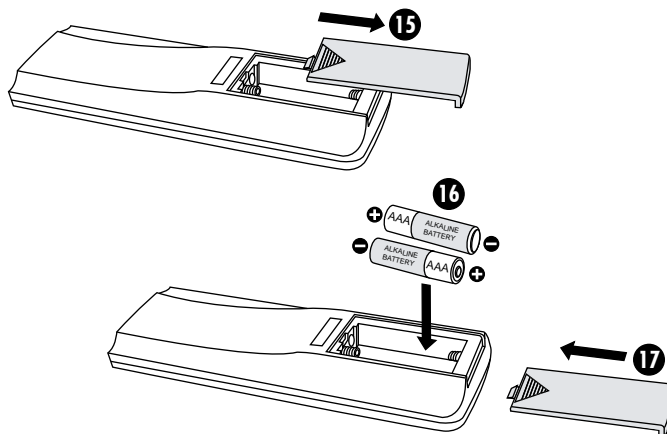
Owner's manual

NAMES AND FUNCTIONS OF REMOTE CONTROLLER COMPONENTS



- 1 MUTE BUTTON**
- 2 INPUT SELECT BUTTON: CDG, DVD, VOD**
- 3 KEY CONTROL: \flat LOW, \natural NATURAL, \sharp HIGH**
- 4 MUSIC MODULATOR CONTROL BUTTON**
- 5 1. STEREO KARAOKE EFFECT SELECT**
- 6 2. ECHO KARAOKE EFFECT SELECT**
- 7 3. MIXED KARAOKE EFFECT SELECT**
- 8 SUPER BASS VOLUME UP & DOWN BUTTON**
- 9 MUSIC MASTER VOLUME CONTROL UP & DOWN BUTTON**
- 10 DSP EFFECT 1 & 2**
- 11 SUPER BASS ON/OFF BUTTON**
- 12 4. FIXED KARAOKE EFFECT SELECT**
- 13 ECHO VOLUME UP & DOWN BUTTON**
- 14 MICROPHONE VOLUME UP & DOWN BUTTON**
- 15 OPEN BATTERY COVER**

Open the battery compartment cover on the back of the remote control unit. The cover should open easily if you press on in with your thumb while sliding it in the direction of the arrow.



16 INSERTING BATTERIES

Insert two size AAA 1.5V (R6) alkaline batteries by matching the + and - on the batteries to the diagram inside the battery compartment.

17 CLOSE BATTERY COVER

Close the cover of the battery case.

NOTE

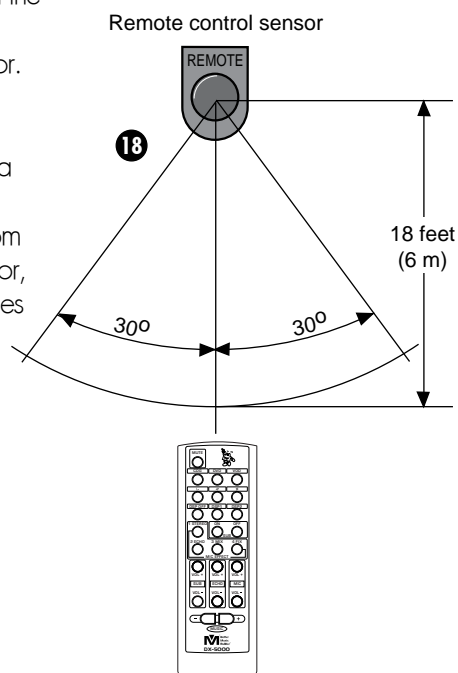
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.

18 USING REMOTE CONTROL UNIT

When operating the remote control unit, point the unit's infrared signal transmitter at the remote control remote sensor **SR** on the front panel of the AV processor.

The remote control unit can be used within a range of about 18 feet (6m) from the remote sensor, and within angles of up to about 30 degrees.



NAMES AND FUNCTIONS OF FRONT PANEL COMPONENTS

1 POWER SWITCH

Press this switch up to turn the power ON. Press the switch down to turn the power OFF.

2 MIC. TREBLE CONTROL

Adjusts the microphone 1 and microphone 2 high frequency EQ response.

3 MIC. (MID) MIDDLE CONTROL

Adjusts the microphone 1 and microphone 2 middle frequency EQ response.

4 MIC. BASS CONTROL

Adjusts the microphone 1 and microphone 2 low frequency EQ response.

5 VOLUME CONTROL

Adjusts the center/monitor volume speaker.

6 THE DISPLAY WINDOW FOR RECEIVING SIGNAL OF REMOTE CONTROL

7 LCD: Display window

8 MEMORY CONTROL BUTTON

Move to up control button, should use it with MODE ADJUSTABLE program button together.

9 UP CONTROL BUTTON

Should use it with MODE ADJUSTABLE program button together.

10 DOWN CONTROL BUTTON

Move to down control button, should use it with MODE ADJUSTABLE program button together.

11 EXCITER MODE

Exciter mode program button to vibrato sound.

12 MIC. MODE

Mic mode program button.

13 AUDIO MODE

Music mode program button

14 SUB MODE

Super bass mode program button

15 AUDIO INPUT

Music input select button

16 MUSIC VOLUME CONTROL

This control allows you to adjust the volume of the musical source.

17 MIC. 1 INPUT 1/4 JACK

This jack is for connecting front 1 microphone and rear microphone 3.

18 MIC. 2 INPUT 1/4 JACK

This jack is for connecting front 2 microphone and rear microphone 4.

19 MIC. (MICROPHONE) 1/3 VOLUME CONTROL

This control microphone 1 and microphone 2 to adjust the volume.

20 MIC. (MICROPHONE) 2/4 VOLUME CONTROL

This control microphone 1 and microphone 2 to adjust the volume.

21 EXCITER HIGH CONTROL

Adjust settings; Set values higher to vibrato sound.

22 EXCITER VOLUME CONTROL

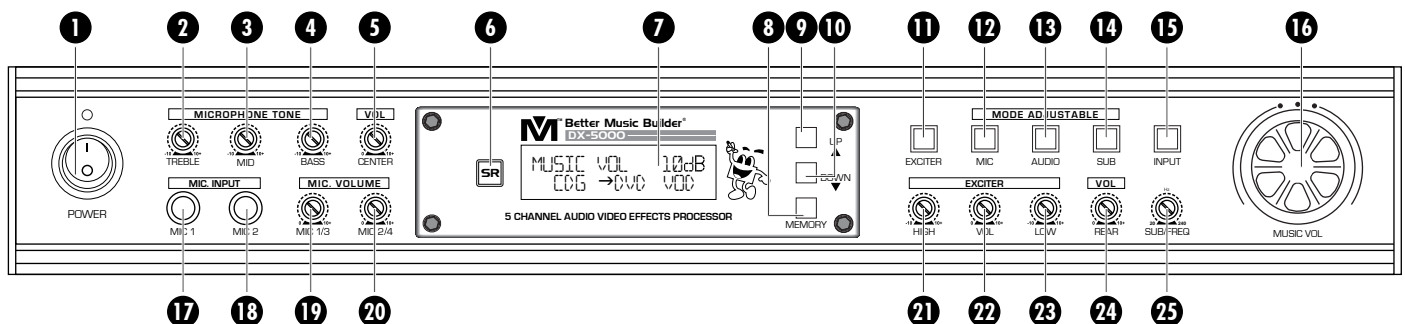
Adjust settings; Set microphone values to tremolo sound.

23 EXCITER LOW CONTROL

Adjust settings; Set values lower to vibrato sound.

24 REAR SPEAKER VOLUME CONTROL

25 SUB/FREQUENCY CONTROL



NAMES AND FUNCTIONS OF REAR PANEL COMPONENTS

26 VOD INPUT VOLUME

27 VOD AUDIO INPUT TERMINAL

28 DVD AUDIO INPUT TERMINAL

29 RS-232: Standard RS-232 port can be conveniently used to connect the system to PC for DSP presetting and parameter adjustment.

30 CDG AUDIO INPUT TERMINAL

31 DVD VIDEO INPUT TERMINAL

32 CDG VIDEO INPUT TERMINAL

33 MICROPHONE EFFECTOR RETURN TERMINAL

34 MICROPHONE EFFECTOR SEND TERMINAL

35 RECORDING OUTPUT TERMINAL

36 SUB WOOFER OUTPUT TERMINAL

37 REAR OUTPUT TERMINAL: This is a five-channel audio/video effect processor (mixer). It connects to the amplifier for the rear speakers. It produces different sound effects between the front and center speakers. If you want to use the microphone for singing or to make an announcement, you need a different microphone tone for effect. You can adjust different tones from the three adjustors (i.e. Delay,

Repeat and Echo) in the rear panel.

38 CENTER OUTPUT TERMINAL

39 MAIN 2 AUDIO OUTPUT TERMINAL

XLR Pre-out to amplifier

40 DELAY REAR MICROPHONE MODE: The three adjustors (i.e. Delay, Repeat and Echo) in the rear panel are used to adjust the microphone effect for the rear speakers only.

41 REPEAT REAR MICROPHONE MODE

42 ECHO REAR MICROPHONE MODE

43 REMOTE WIRED CONTROLLER CONNECTOR

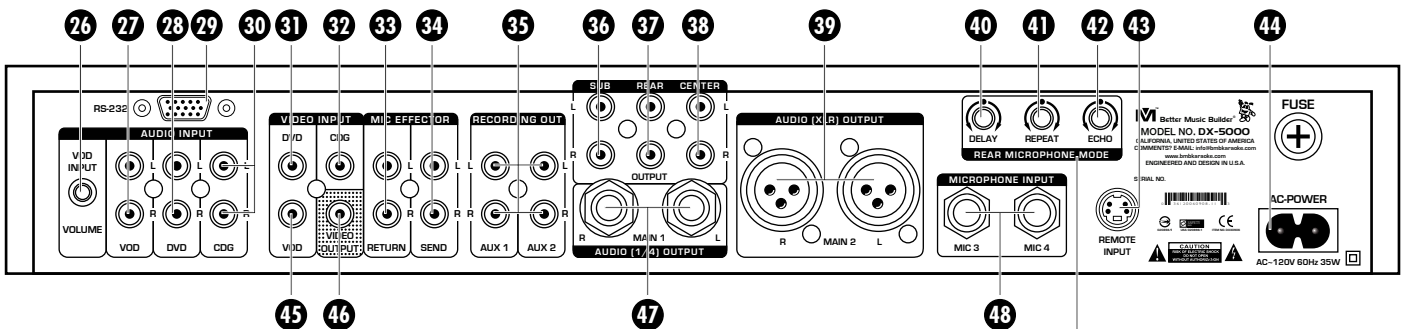
44 120V 60Hz 35W AC-POWER PLUG

45 VOD VIDEO INPUT TERMINAL

46 VIDEO OUTPUT TERMINAL

47 MAIN 1 AUDIO OUTPUT TERMINAL: This 1/4 Audio-Out connects to the amplifier. If there is any humming sound, we recommend you to connect the MAIN 2, which is a XLR balance Audio-Out, to reduce the humming sound.

48 REAR MICROPHONE INPUT 3/4 TERMINAL



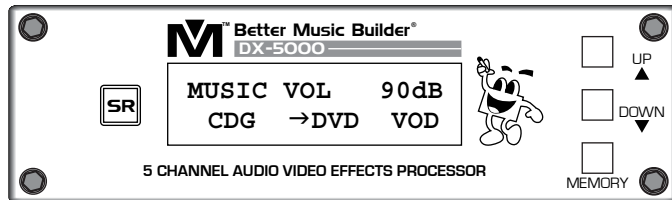
REAR MICROPHONE MODE ←

The three adjustors (i.e. Delay, Repeat and Echo) in the rear panel are used to adjust the microphone effect for the rear speakers only.

NOTE The adjustment for the rear microphone mode has no effect on the main speakers in the front. To adjust the microphone effect on the main speakers in the front, you need to use the "MIC ADJUSTABLE" in the front panel for adjustment. The adjustment will be shown in the LCD screen. It is because this audio/video processor is designed with five channels for sound effects.

OPERATING INSTRUCTIONS

1. Turn on the DX-5000 by pressing I/O (ON/OFF POWER) button.
2. After switching I/O button (power), it takes about 40 seconds until the machine is operational.
3. After the machine has been booted up, the Digital Display would appear as follows:



Music Input

4. Press the INPUT/SOURCE button to select the source as follows:

NOTE ➤ Press the **SOURCE** button to move the arrow to select the source you want. After 10 seconds, the signal would be automatically locked on.

MUSIC	VOL	90dB
→CDG	DVD	VOD

MUSIC	VOL	90dB
CDG	→DVD	VOD

MUSIC	VOL	90dB
CDG	DVD	→VOD

Mode Adjustable (MIC, AUDIO, SUB)

5. Selectable Modes

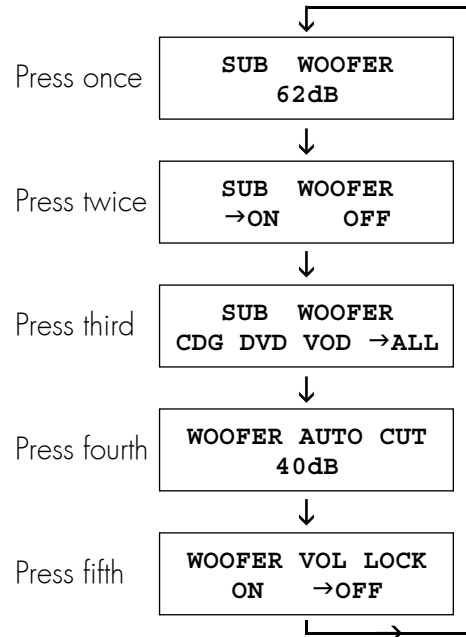
There are three different modes: **SUB** (Subwoofer), **AUDIO** and **MIC** (microphone). Press the **SUB**, **AUDIO** and **MIC** button to select between modes.

SUB Mode:

❖ When you adjust a setting for subwoofer and press **Memory** the screen will display as below:

The adjusted and saved setting will remain the same after you reset your system even if you changed the setting again, without storing. (eg. If you set subwoofer volume at 20dB and press memory it will be saved, however if anyone change the 20dB without saving then when you reset the machine the subwoofer volume will remain 20dB instead of the last unsaved setting.

DATA STORE
Processing...OK!



❖ Adjust subwoofer mode by pressing the **SUB** button.

- A. Press the **SUB** button for the first time, the Digital Display would appear as follows:

SUB WOOFER
62dB

NOTE ➤ Press the **UP/DOWN** button to adjust the subwoofer volume from 00dB to the maximum 62 dB.

- B. Press the **SUB** button the second time, the Digital Display would appear as follows:

SUB WOOFER
→ON OFF

NOTE ➤ Press the **UP/DOWN** button to move the arrow to select **ON** or **OFF**. (The subwoofer will be deactivated in off position).

- C. Press the **SUB** button the third time, the Digital Display would appear as follows:

SUB WOOFER
CDG DVD VOD →ALL

NOTE ➤ Press the **UP/DOWN** button to move the arrow to select **CDG**, **DVD**, **VOD** or **ALL**. (The subwoofer will be in effect for the selected options only)

- D. Press the **SUB** button the fourth time, the Digital Display would appear as follows:

WOOFER AUTO CUT
80dB

NOTE ➤ Press the **UP/DOWN** button to move the arrow to limit the subwoofer at a designated level. You may select from 00dB up to maximum 50dB.

E. Press the **SUB** button the fifth time, the Digital Display would appear as follows:

WOOFER VOL LOCK
ON →OFF

NOTE ➤ Press the **UP/DOWN** button to move the arrow to select **ON** or **OFF**. Once you have selected **ON**, the subwoofer volume will be unadjustable.

Music Tone Effects (Bass, Treble & Keycontrol)

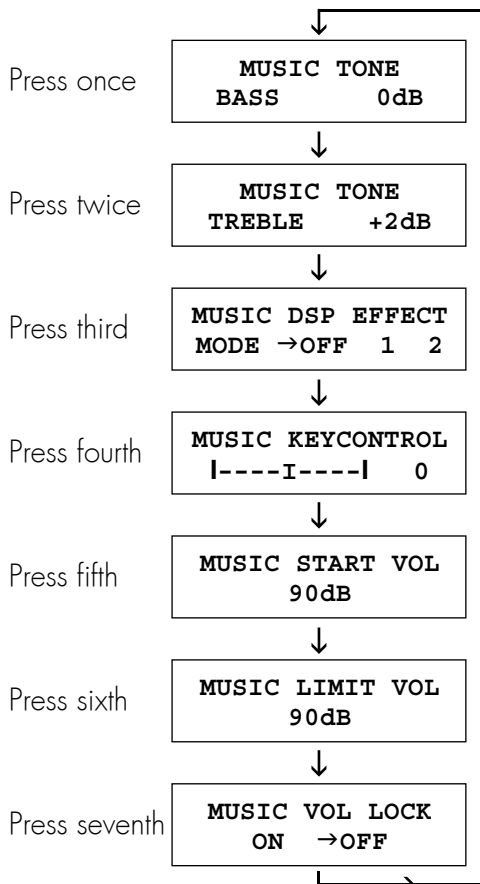
Audio Mode:

❖ When you adjust a setting for the audio and press **Memory** the screen will display as below:

The adjusted and saved setting will remain the same after you reset your system even if you changed the setting again, without storing. (eg. If you set music volume at 20dB and press memory it will be saved, however if anyone change the 20dB without saving then when you reset the machine the music volume will remain 20dB instead of the last unsaved setting.

DATA STORE
Processing...OK!

❖ Select the audio mode by pressing the **AUDIO** button.



A. Press the **AUDIO** button for the first time, the Digital Display would appear as follows:

MUSIC TONE
BASS 0dB

NOTE ➤ Press the **UP/DOWN** button to adjust the bass output from -10 dB to +10 dB.

B. Press the **AUDIO** button for the second time, the Digital Display would appear as follows:

MUSIC TONE
TREBLE +2dB

NOTE ➤ Press the **UP/DOWN** button to adjust the treble output from +/- 00 dB to +/- 10 dB.

C. Press the **AUDIO** button for the third time, the Digital Display would appear as follows:

MUSIC DSP EFFECT
MODE →OFF 1 2

NOTE ➤ Press the **UP/DOWN** button to move the arrow to select the mode: OFF, Group 1 or Group 2.

D. Press the **AUDIO** button for the fourth time, the Digital Display would appear as follows:

MUSIC KEYCONTROL
I----I----I 0

NOTE ➤ Key controller, press the **UP/DOWN** button to adjust the 9-step key level.

E. Press the **AUDIO** button for the fifth time, the Digital Display would appear as follows:

MUSIC START VOL
90dB

NOTE ➤ Press the **UP/DOWN** button to move the arrow to ON or OFF for music start volume. Once you have selected the value and save, when you start the system the volume will be at the selected value. You may select from 00dB up to maximum 90dB.

F. Press the **AUDIO** button for the sixth time, the Digital Display would appear as follows:

MUSIC LIMIT VOL
90dB

NOTE ➤ Press the **UP/DOWN** button to move the music limit volume at a selected limit. It will limit all volume to the selected limit.

G. Press the **AUDIO** button for the sixth time, the Digital Display would appear as follows:

MUSIC VOL LOCK
ON →OFF

NOTE ➤ Press the **UP/DOWN** button to move the music volume lock on or off. At own all audio settings can't be changed unless unlocked.

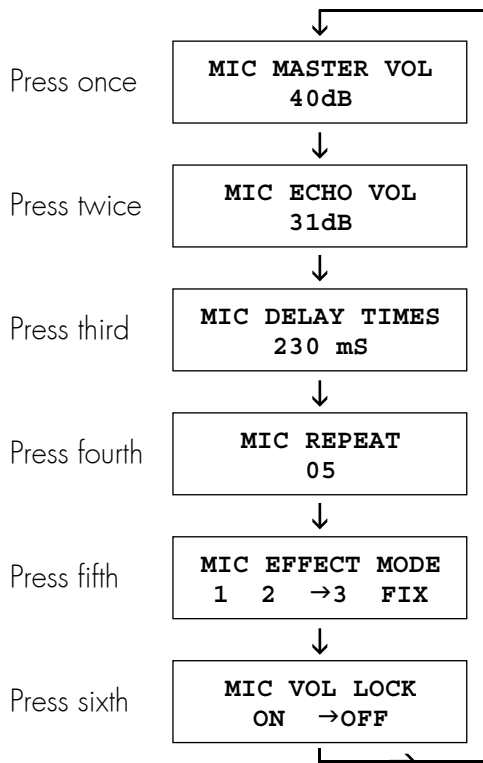
Mic Mode:

❖ When you adjust a setting for the mic and press **Memory** the screen will display as below:

The adjusted and saved setting will remain the same after you reset your system even if you changed the setting again, without storing. (eg. If you set music volume at 20dB and press memory it will be saved, however if anyone change the 20dB without saving then when you reset the machine the mic volume will remain 20dB instead of the last unsaved setting.)

DATA STORE
Processing...OK!

❖ Select the microphone mode by pressing the **MIC** button.



A. Press the **MIC** button for the first time, the Digital Display would appear as follows:

MIC MASTER VOL
50dB

NOTE ➤ Press the **UP/DOWN** button to adjust the Mic. volume from 00dB to the maximum 50dB.

Echo Effects Settings (Echo, Delay & Repeat)

B. Press the **MIC** button for the second time, the Digital Display would appear as follows:

MIC ECHO VOL
50dB

Press the **UP/DOWN** button to adjust the echo level from 00dB to the maximum 50dB.

C. Press the **MIC** button for the third time, the Digital Display would appear as follows:

MIC DELAY TIMES
230 mS

NOTE ➤ Press the **UP/DOWN** button to adjust the delay time level from 40 mS to 230 mS

D. Press the **MIC** button for the fourth time, the Digital Display would appear as follows:

MIC REPEAT
16

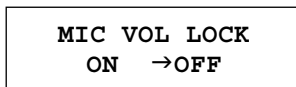
NOTE ➤ Press the **UP/DOWN** button to adjust the repeat level from 00 to 16.

E. Press the **MIC** button for the fifth time, the Digital Display would appear as follows:

MIC EFFECT MODE
1 2 →3 FIX

NOTE ➤ Press the **UP/DOWN** button to move the arrow to select the microphone effect modes: 1, 2, 3, or Fix. (In fix mode the echo, repeat and delay can't be adjusted.) You will have to change back to effect 1, 2 or 3 to enable it. Mic effect 1, 2 and 3 is 3 different manufacturer set effects for the mic digital reverb special effect which can be changed. Fix is to lock your personal reverb and echo settings. (Fix will lock your personal mode for echo volume, delay times and repeat.)

F. Press the **MIC** button for the sixth time, the Digital Display would appear as follows:



NOTE ➤ Press the **UP/DOWN** button to move the arrow to select **ON** or **OFF** for microphone volume lock. Once you have selected **ON**, the Mic Volume and all mic settings will be locked until you set it off.

❖ Feedback prevention for microphone:

A. Do not use the minimum 40mS for **MIC DELAY TIMES**. We recommend to set **MIC DELAY TIMES** to at least 220 mS.

B. We recommend you to set the **MIC ECHO** volume level to 12dB, great for singing and karaoke.

C. We recommend you to set the **MIC REPEAT** level from 5 to 16.

D. For wireless microphone, please set the volume of the receiver to a 10 - 12 o'clock position in order to reduce feedback.

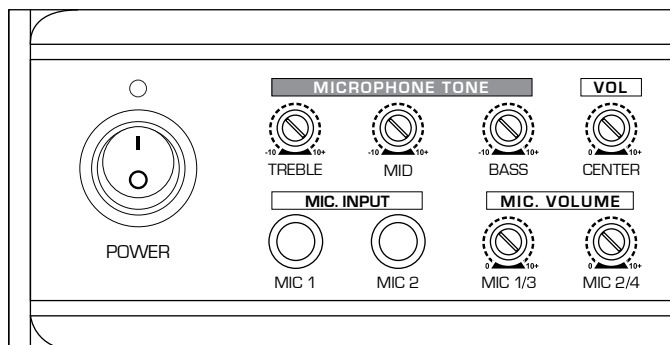
Exciter Mic Mode:

❖ Press the **EXCITER** button to enable as follows:

NOTE ➤ Press the Exciter button to turn mic excite on or off.



Mic Tone Effects (Bass, Mid & Treble)



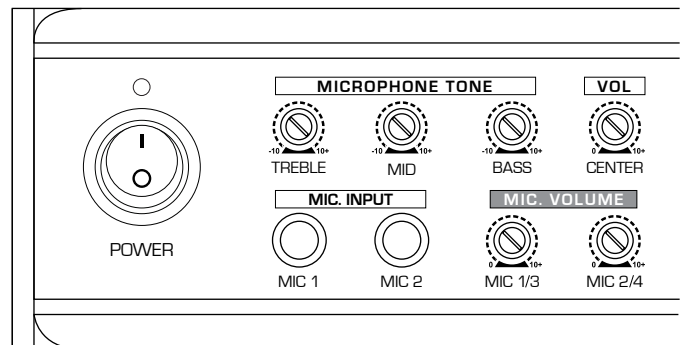
6. Adjusting the microphone tone

A. There are three knobs under the **MIC TONE**: (1) **BASS** (2) **MID** (3) **TREBLE**

B. **BASS**: Slowly turn the knob in clockwise direction to increase the bass output for the microphone.

C. **MID**: Slowly turn the knob in clockwise direction to increase the midrange output for the microphone.

D. **Treble**: Slowly turn the knob in clockwise direction to increase the treble output for microphone.

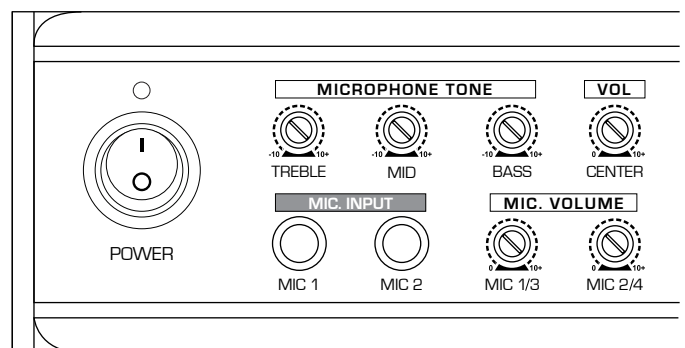


7. Adjusting the microphone volume

A. There are two knobs under **MIC VOL**: (1) **MIC 1/3** (2) **MIC 2/4**

B. The **MIC 1/3** knob controls the volume for microphone 1 (in front panel) and microphone 3 (in rear panel)

C. The **MIC 2/4** knob controls the volume for microphone 2 (in front panel) and microphone 4 (in rear panel)



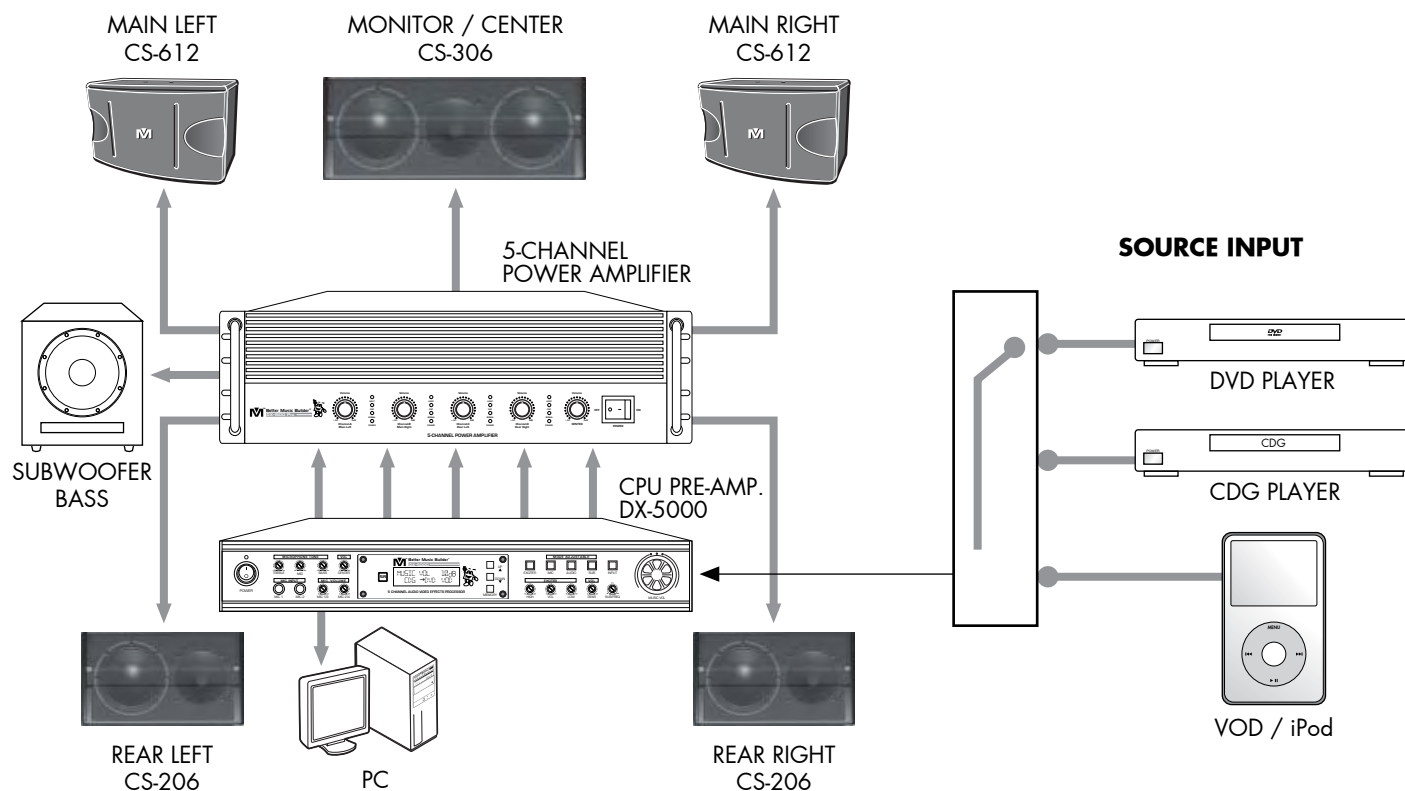
8. Microphone Input

A. There are two microphone inputs in the front panel: **MIC 1** for microphone 1 and **MIC 2** for microphone 2.

B. The connector for microphone 1 and 2 in front panel is 1/4 (unbalance).

C. The connector for microphone 3 and 4 in rear panel is XLR (balance).

5-CHANNEL CONNECTION DIAGRAM



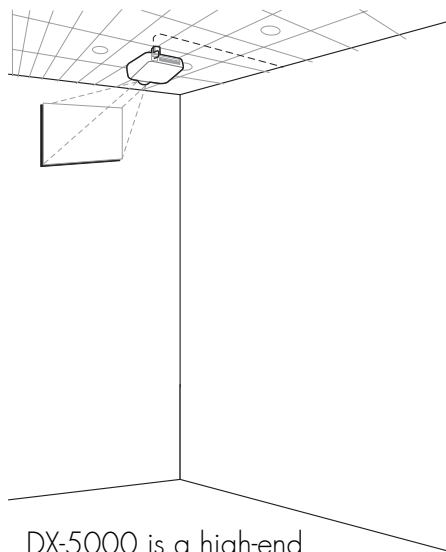
DX-5000 is a Central Processing Unit (CPU)-controlled machine with five channels to maximize the sound quality and effects. It is compatible with iPod source, so it is excellent for using as rental equipment. DX-5000 can also be used as a pre-amp.

DX-5000 is the second generation CPU audio/video processor with five-channel sound effects to produce the following special features.

- ❖ Five channels (pre-amp) including main speakers (right and left), center speakers, rear speakers (right and left) and subwoofer.
- ❖ Vocal from only the center speaker or from the main, rear and center speakers for singing and talking.
- ❖ Special effect adjustments for different microphone tones (i.e. Delay, Repeat and Echo) in front, center and rear speakers. This would give you new audio experience.
- ❖ Built-In software programming RS-232 to allow computer to operate easily.
- ❖ Three digital sound effects for customization.
- ❖ Four microphones input at the same time.
- ❖ Special effects for microphone including strengthening the delay, repeat and echo.
- ❖ Special adjustment and customization for digital music key.
- ❖ Both bypassing and non-bypassing XLR balance functions for audio signals.
- ❖ High resolution video in compatible with HD Television.
- ❖ Selection for stereo pre-amp.

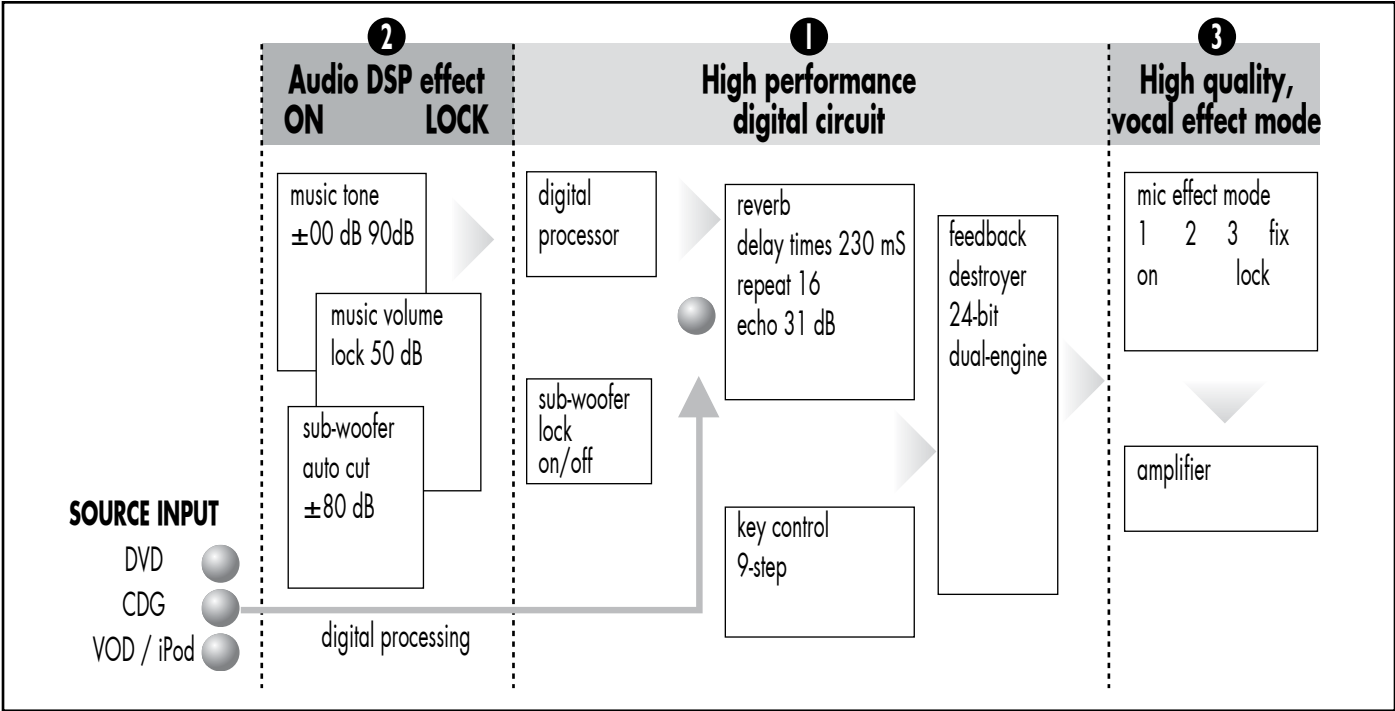
DX-5000 is suitable for audio use by church, school, company conference, café. It is excellent for Karaoke use and equipment rental.

EASY INSTALLATION FOR BUSINESS

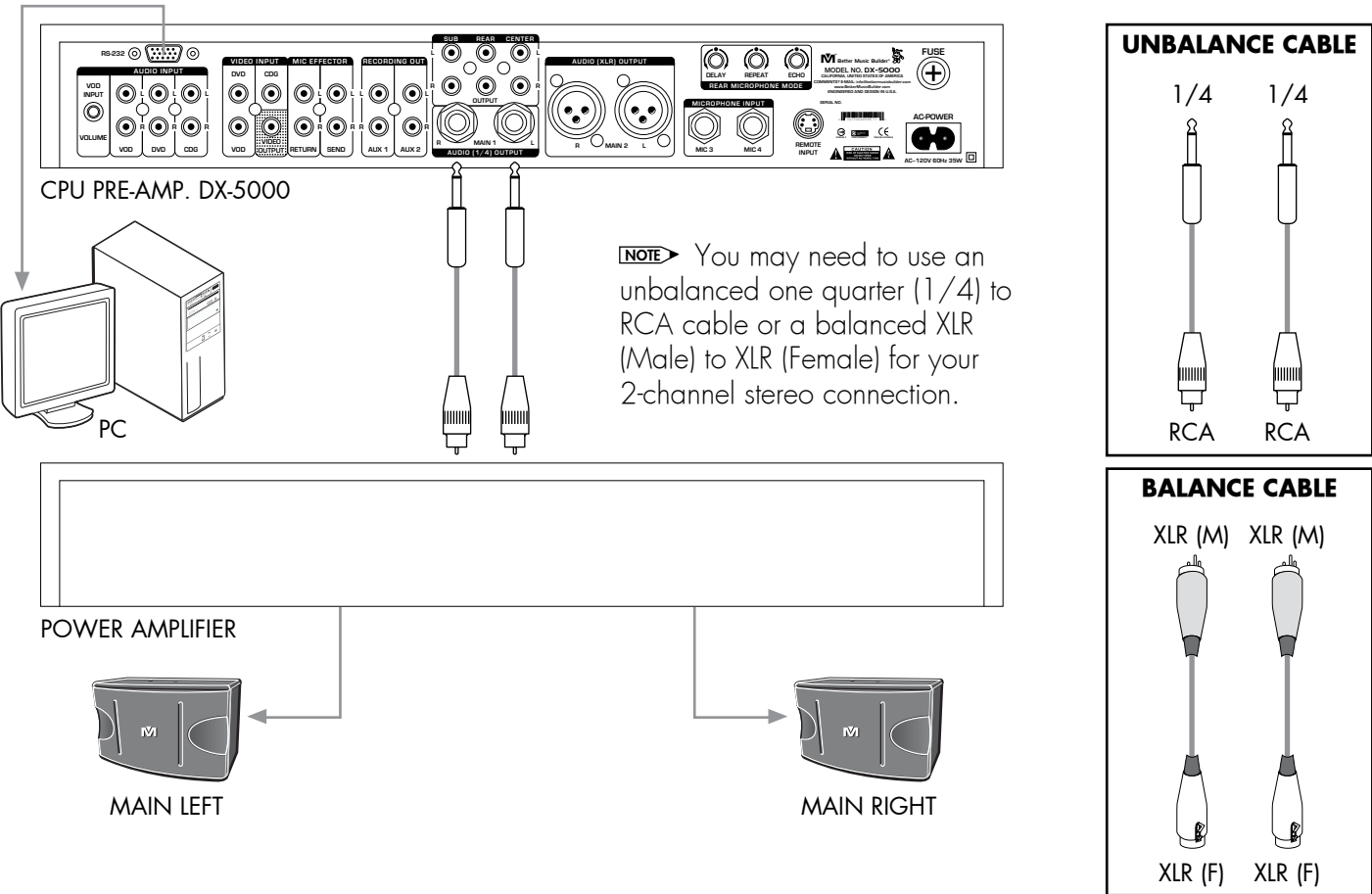


DX-5000 is a high-end audio/video processor. It can be easily installed for public use such as church, business, cafe, bar, restaurant, Karaoke club, community center and nightclub, etc. because DX-5000 is a CPU-controlled pre-amp, so it is compatible with computer and iPod input.

5-CHANNEL CPU PROCESSOR

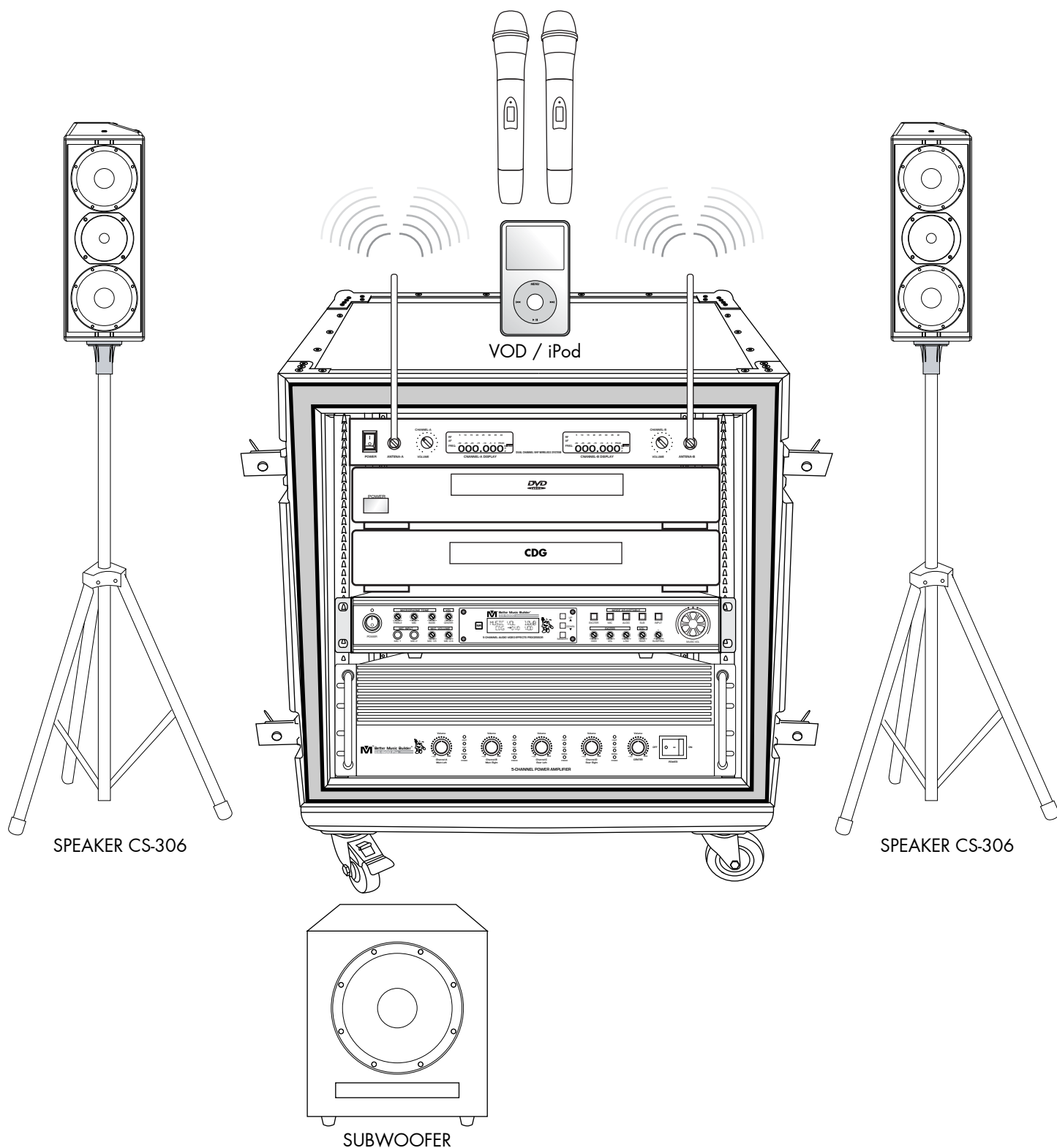


2-CHANNEL STEREO CPU PROCESSOR CONNECTION DIAGRAM



PORTABLE

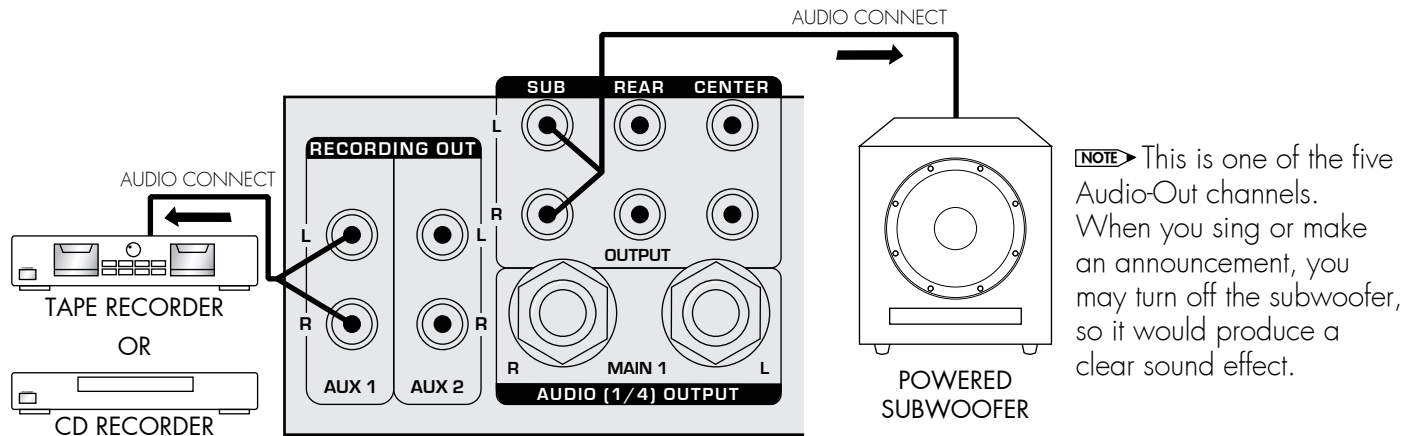
DX-5000 is portable product, so it is excellent for equipment rental. You can mount it to a flying rack case and carry it to any place for use. Due to its high compatibility, DX-5000 is compatible with DVD player, CDG player, VOD < iPod >. Since DX-5000 is a pre-amplifier, you may choose to use a 2-channel power amplifier or a 5-channel power amplifier. We recommend you to use our CS-306 full-range loud speakers with the sub-bass. It would be an excellent match.



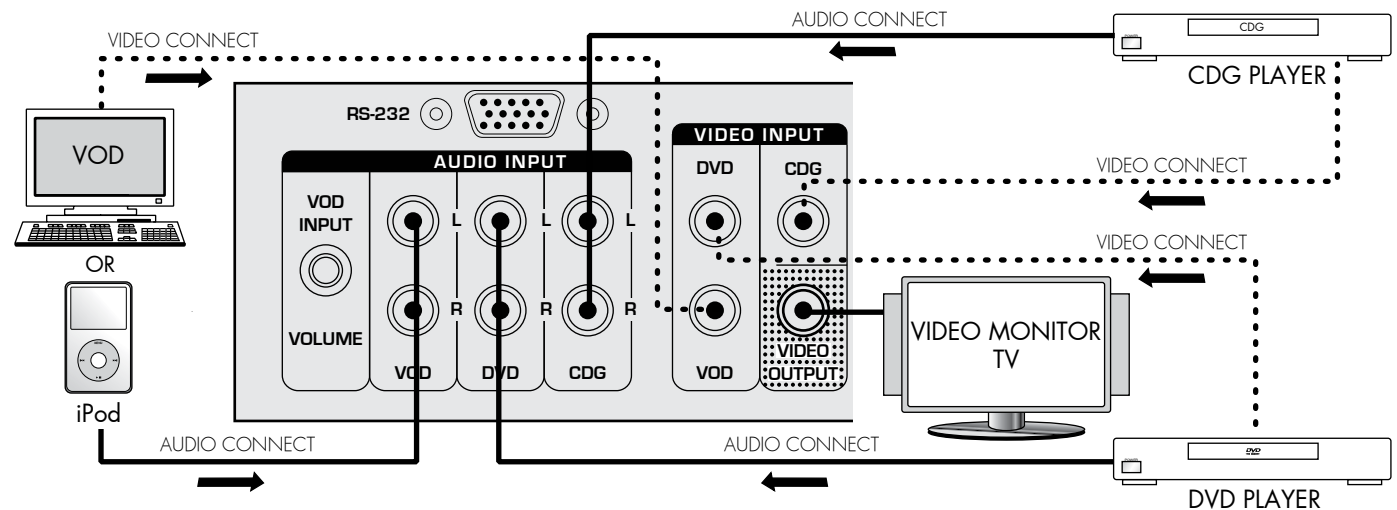
HOW TO CONNECT RECORDER & SUB WOOFER

AUX 1 and AUX 2: These two audio-outs bypass the audio signal for music and mic. tones. Any adjustment on toning would not affect the original signal for recording.

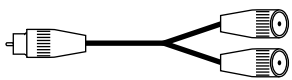
NOTE Do not connect the AUX1 and AUX 2 to amplifier because they bypass the audio signal for music and mic. tones.



HOW TO CONNECT MUSIC A.V. SOURCE AND VIDEO MONITOR



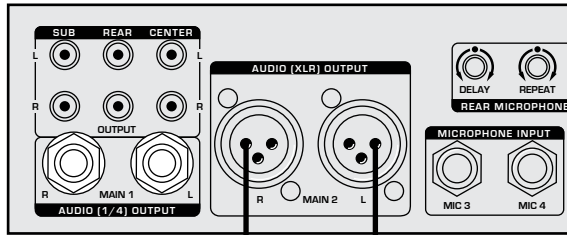
Y-VIDEO ADAPTER



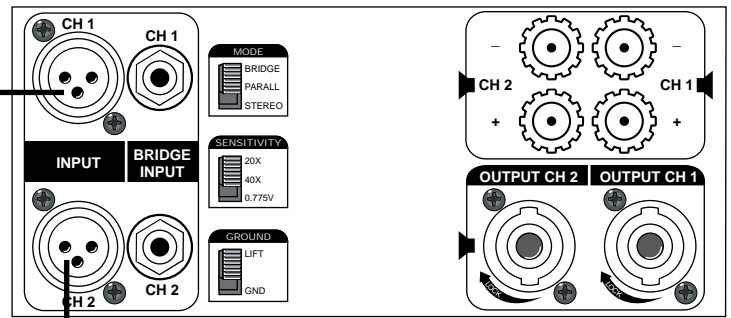
NOTE If you need more than two Video-Out, you may need a Y-adaptor for connection. However, it may lose the video signal if it extends over 12 feet. In this case, we recommend you to use a video signal amplifier to maintain good video quality.

HOW TO CONNECT AMPLIFIER for 2-CHANNEL STEREO

DX-5000 Rear view

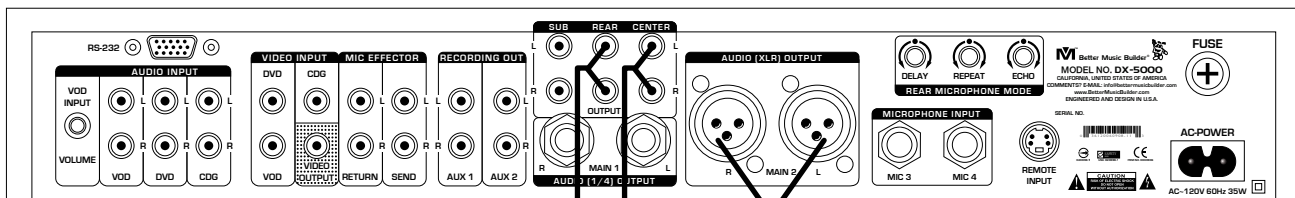


Power Amplifier

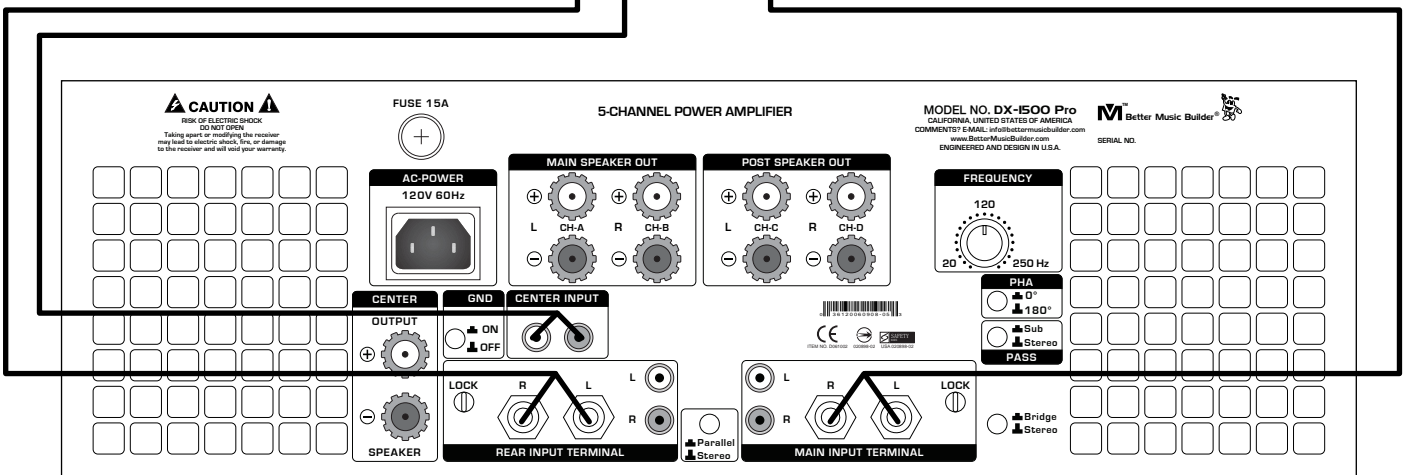


High quality connection uses XLR cable to connect

HOW TO CONNECT AMPLIFIER for 5-CHANNEL



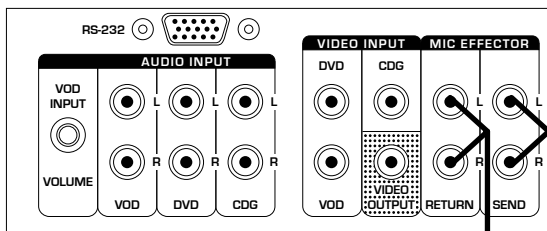
CPU PRE-AMP. DX-5000



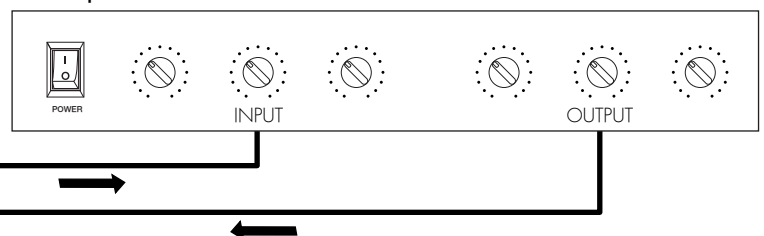
5-CHANNEL POWER AMPLIFIER

HOW TO CONNECT MICROPHONE EFFECT

DX-5000 Rear view



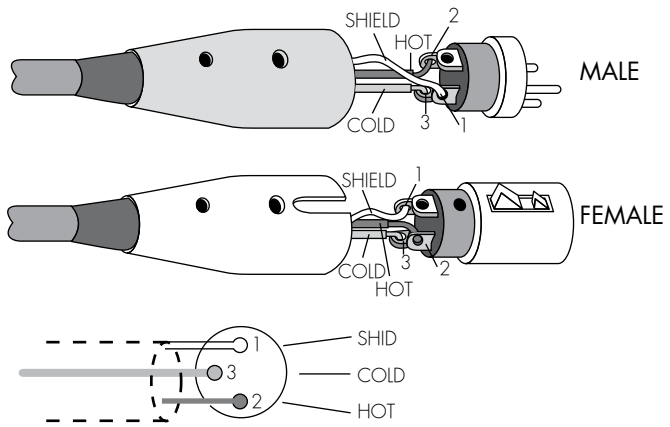
Microphone effector or reverb



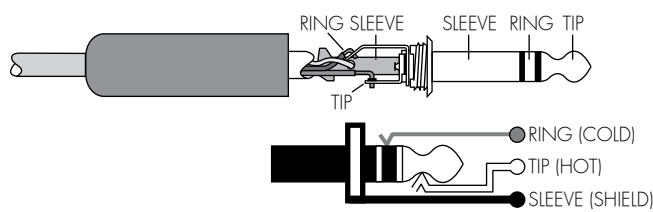
CONNECTOR INFORMATION

BALANCE XLR CONNECTORS

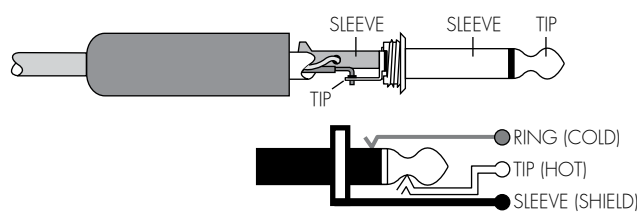
	XLR	TRS
Hot (+)	Pin 2	Tip
Cold (-)	Pin 3	Ring
Shield (Ground)	Pin 1	Shield



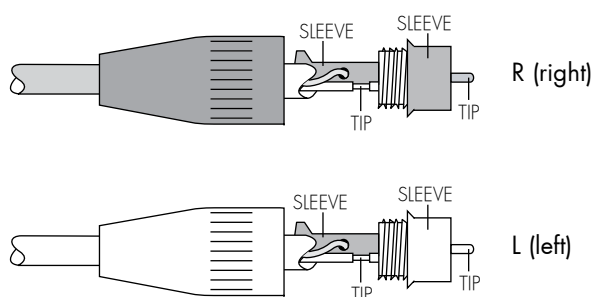
BALANCE 1/4 TRS PLUG



UNBALANCE 1/4 TRS PLUG



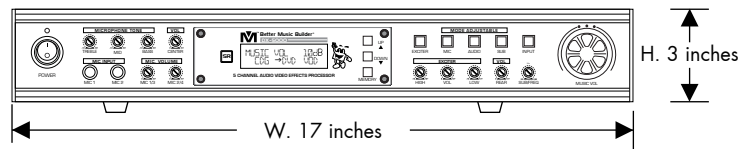
RCA UNBALANCE JACK



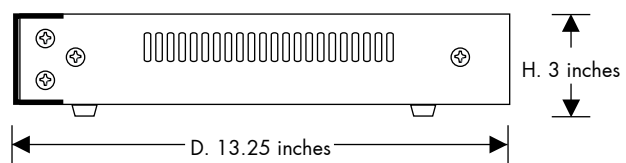
PHYSICAL

Height	3 inches/ 7.6 cm
Width	17 inches/43.2 cm
Depth	13.25 inches/ 33.7 cm
Net Weight	13.23 LBs/ 6 Kg

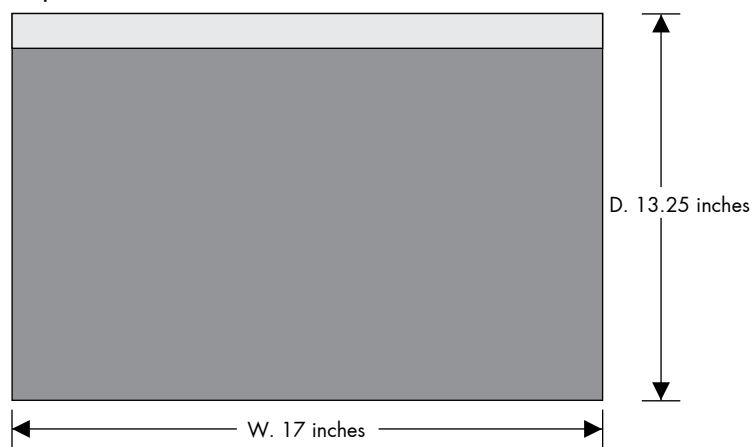
Front view



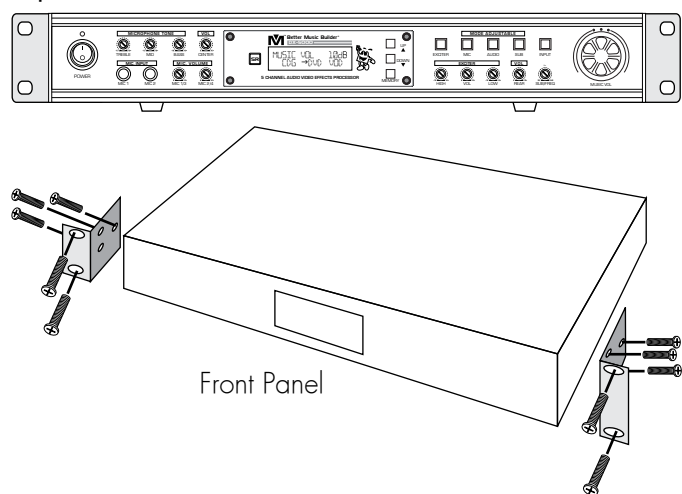
Side view



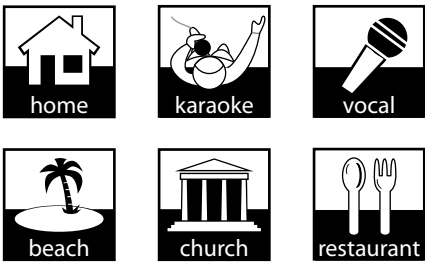
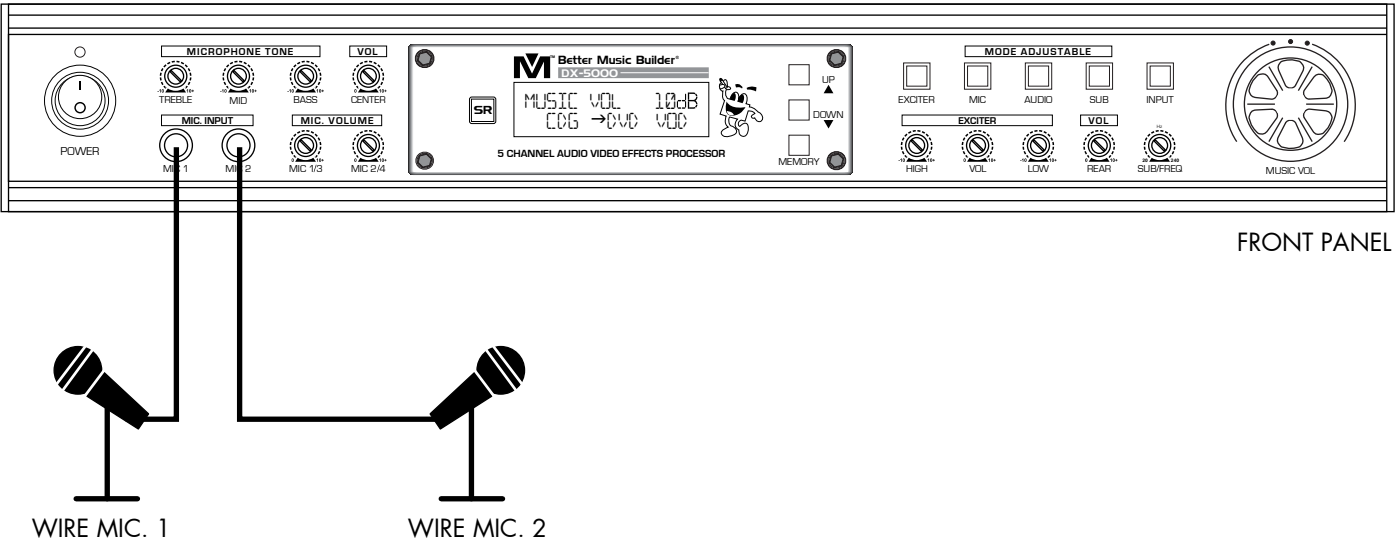
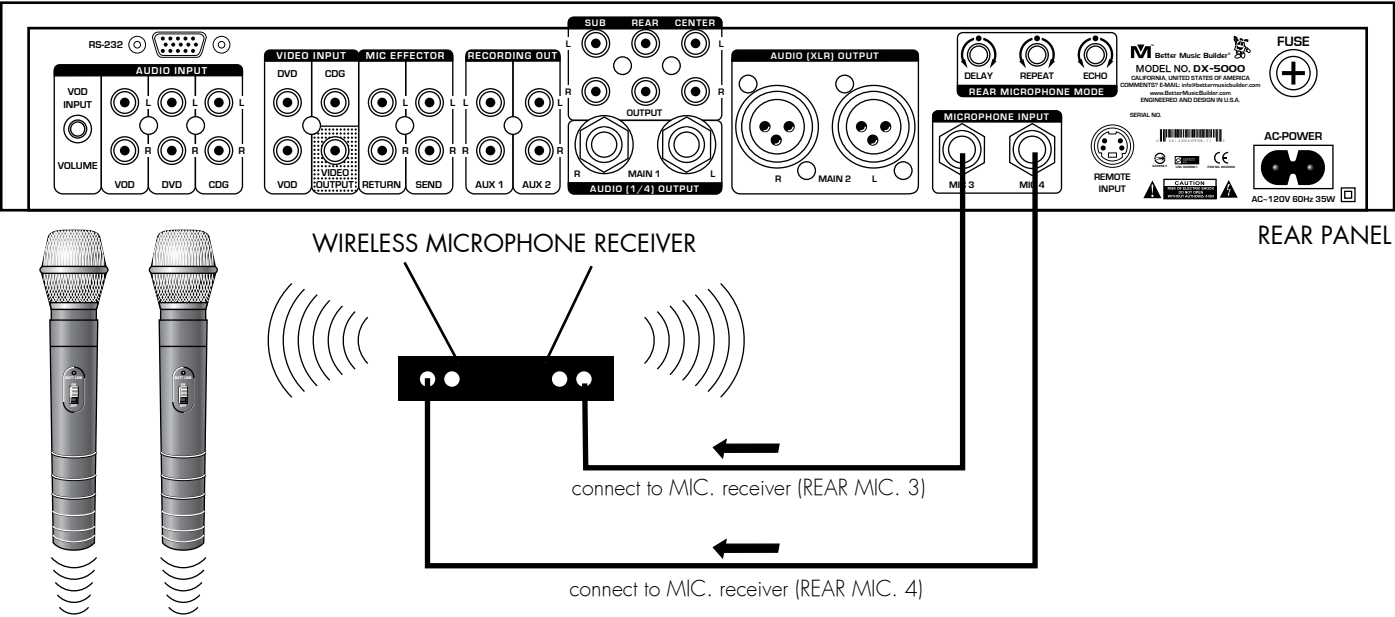
Top view



Optional for 19" rack mount kit

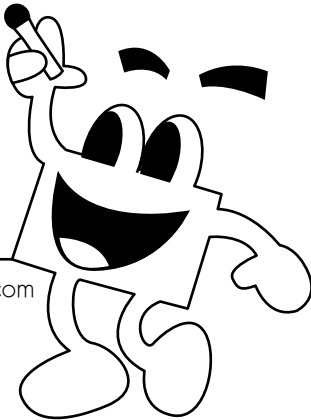


HOW TO CONNECT MICROPHONE



It's your sound's of performance.

Find more information at www.BetterMusicBuilder.com



TROUBLESHOOTING

Audio Problems

If your audio settings can not adjust check to see if your music, mic or bass lock is turned on. If it's on the on position change it to off position so you may change the settings. If the lock is on for a setting then the volume can not be adjusted. Please make sure the lock settings is not on when you try to change audio settings.

Echo Setting Problems

If your microphone echo, repeat and delay cannot be adjusted make sure the mic effect mode is not on fix or the mic loc is not on. To turn off mic lock press mic button 6 times until panel displays as below, press the up or down button to set the arrow on lock to turn off lock.

MIC VOL LOCK
ON →OFF

Mic effect 1, 2 and 3 is 3 different manufacturer set effects for the mic digital reverb special effect which can be changed. Fix is to lock your personal reverb and echo settings.

MIC EFFECT MODE
1 2 →3 FIX

To turn off music lock press audio button 5 times until panel displays as below, press the up or down button to set the arrow on lock to turn off lock.

MUSIC VOL LOCK
ON →OFF

To turn off subwoofer lock press audio button 5 times until panel displays as below, press the up or down button to set the arrow on lock to turn off lock.

WOOFER VOL LOCK
ON →OFF

If there is no subwoofer sound:

- ❖ Check to make sure subwoofer is turned on
- ❖ Check if your subwoofer volume is set higher than 00dB
- ❖ Check to see if your subwoofer is set to the correct source
- ❖ Check to see if your subwoofer is connected correctly

If mic has no sound:

- ❖ Check if your mic is turned on or if the cable is connected properly
- ❖ Check the mic volume
- ❖ If it's a wireless mic check if your frequency is not interrupted

For bad audio or microphone sounds:

- ❖ Check the source of your audio (CD, DVD) see if it's scratched
- ❖ Check your audio cables or microphone cables
- ❖ Use a better audio cable or 3pin XLR mic cable for clarity

Video Problems

If your video is flickering:

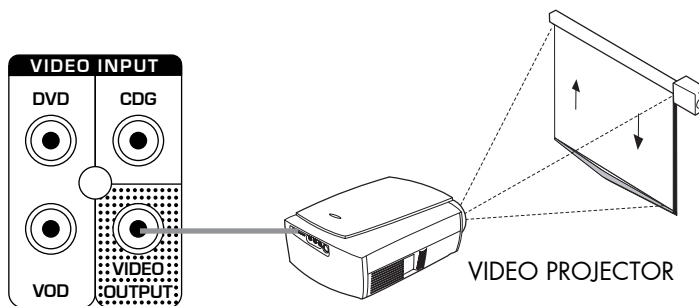
- ❖ Check to see if the AV cable is damaged or not
- ❖ Use a better AV cable
- ❖ We recommend customers to direct connect videos to the TV or Display for best results.

If there is no video:

- ❖ Check to see if your video sources are selected accordingly
- ❖ Check to see if you plugged in the video cables
- ❖ Check your TV or display

Video Signal Out recommendations:

If you have more than 2 RCA output to the display, we recommend you use a signal amplifier. The signal amplifier will stabilize your video quality. If you have a HDTV (Plasma, or LCD) video we recommend you directly connect your source to the video display.



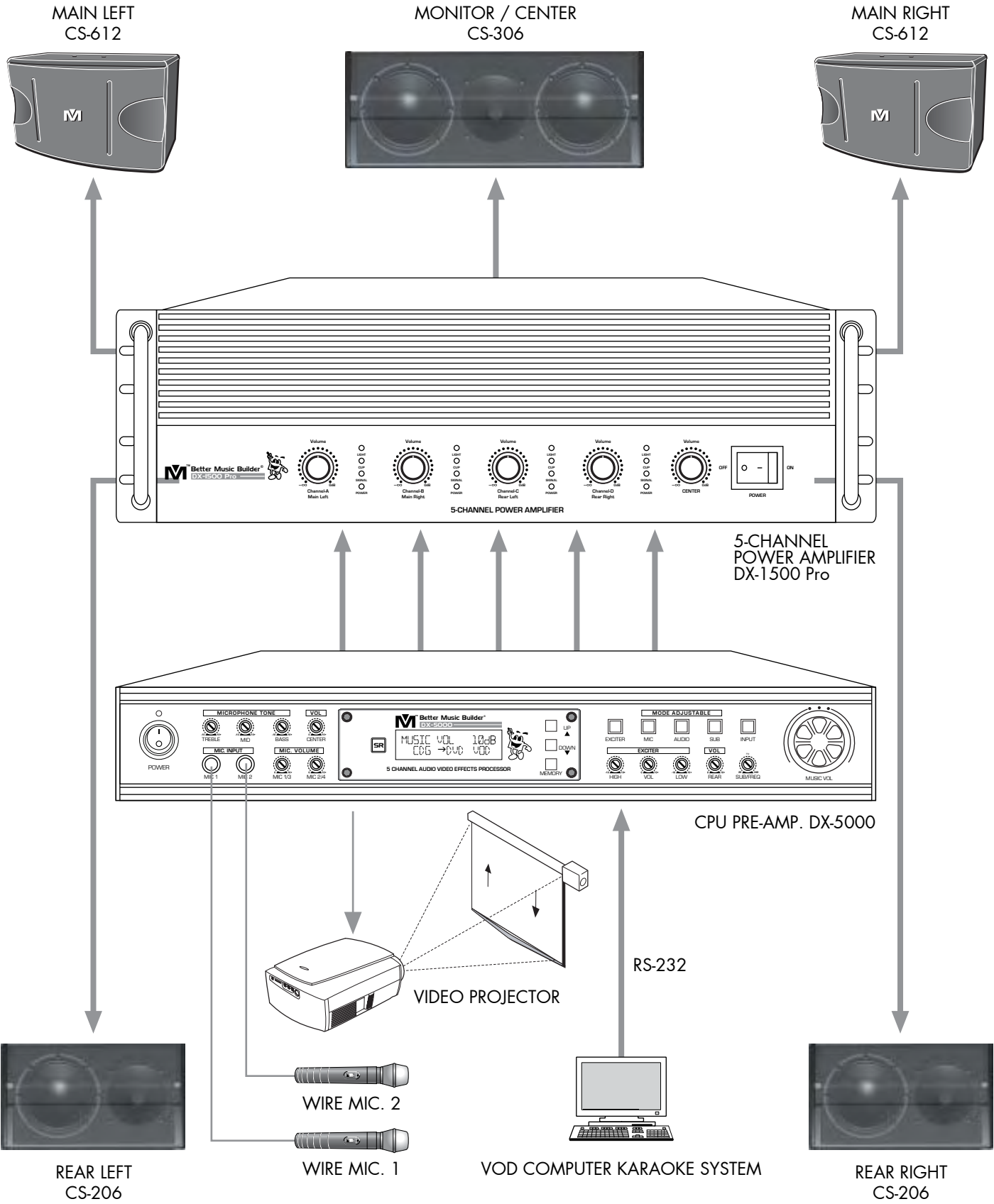
Other Problems

If power can not be turned on:

- ❖ Check to see if your unit is plugged in properly
- ❖ Check your power cable

For further assistance contact your local dealership or email: info@bettermusicbuilder.com

PROFESSIONAL AUDIO



DX-5000 PROCESSOR CONSOLE

File: Standard RS-232 port

Open: open a saved effects setting
Save: save your current effects setting

Parameter Setting

Start Music Volume: Adjust the decibels (db) of your music systems starting volume.

Max Music Volume: Adjust the highest db limit of your system

Music Effect: Select effects for music, Effect 1, Effect 2 and off.

Key Control: Changes the key from flat ▲b4~▼#4

Max mic volume: Adjust the highest db limit for your microphone

Start mic volume: Adjust the starting volume for your microphone

Mic effect: Adjust mic effect from Effect 1, Effect 2, Effect 3 or Fix

Mic delay: Adjust the mic echo delay effect in milliseconds (mS)

Mic repeat: Adjust the mic echo repeat effect

Subwoofer auto cut: Adjust the volume for the subwoofer cut

Sub output direction: Select the output to a connect system

Input Source: Select the input source for your video or audio

Lock music on/off: when checked it locks all music adjustments

Lock mic on/off: when checked it locks all mic adjustments

Lock sub on/off: when checked it locks all sub adjustments

Exciter: when checked turns microphone exciter effect on

Sub On/off: when checked it mutes the subwoofer

Volume Control

Sub vol: turns up or down subwoofer volume

Music vol: turns up or down music volume

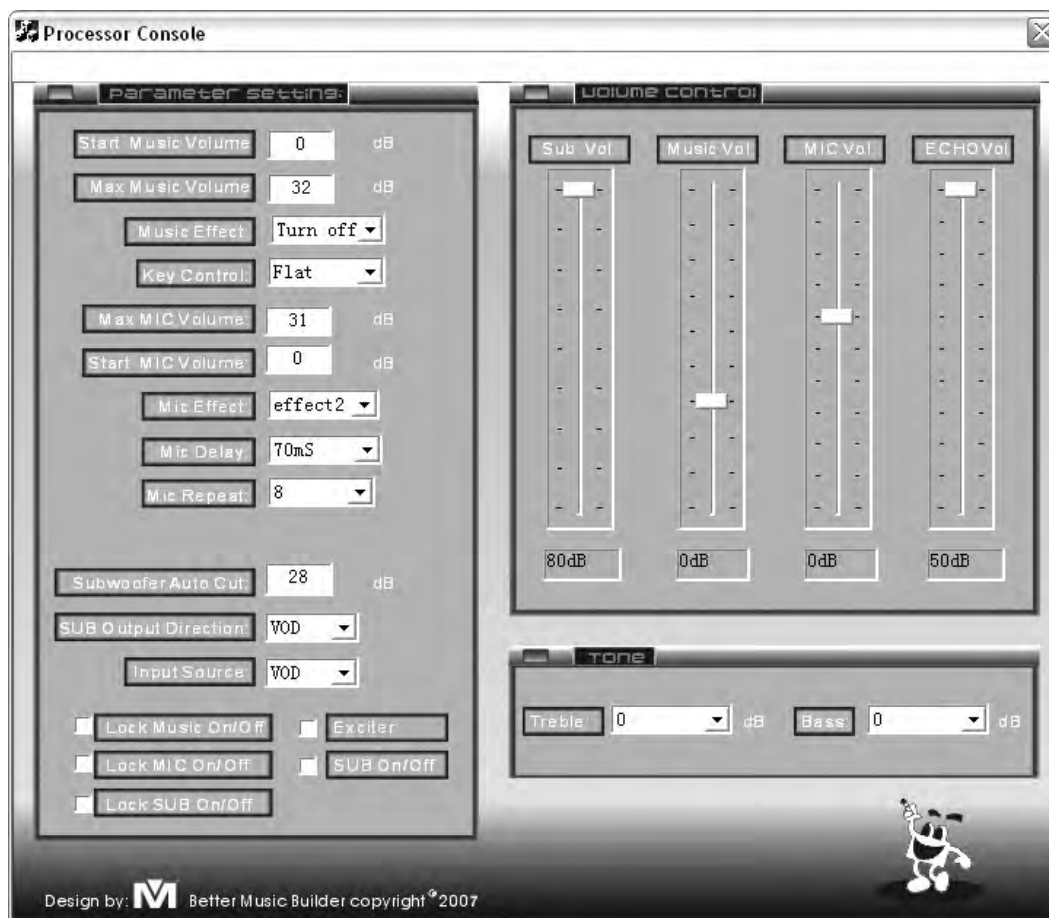
Mic vol: turns up or down mic volume

Echo vol: turns up or down echo volume

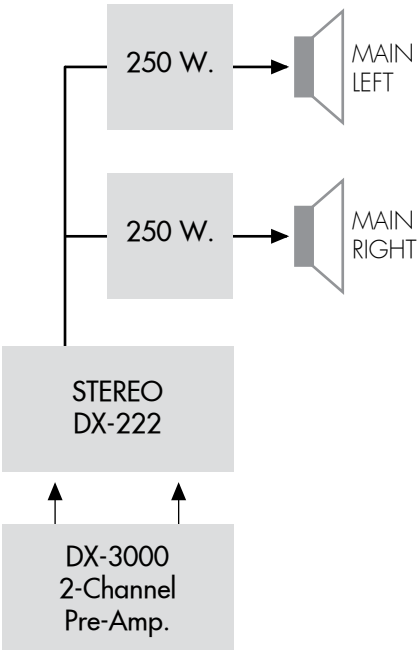
Tone

Treble: adjust the treble volume

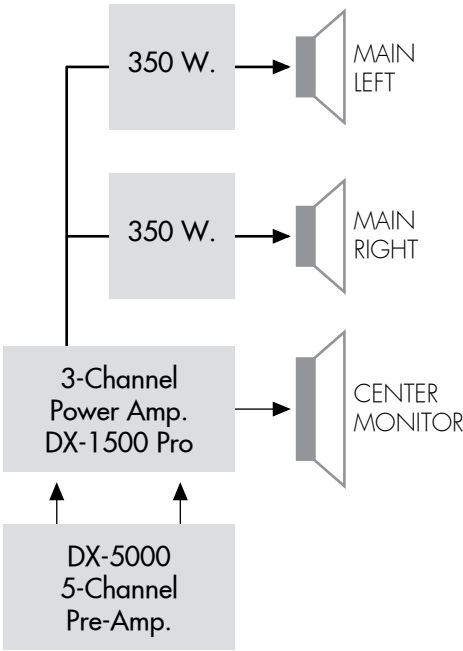
Bass: adjust the bass volume



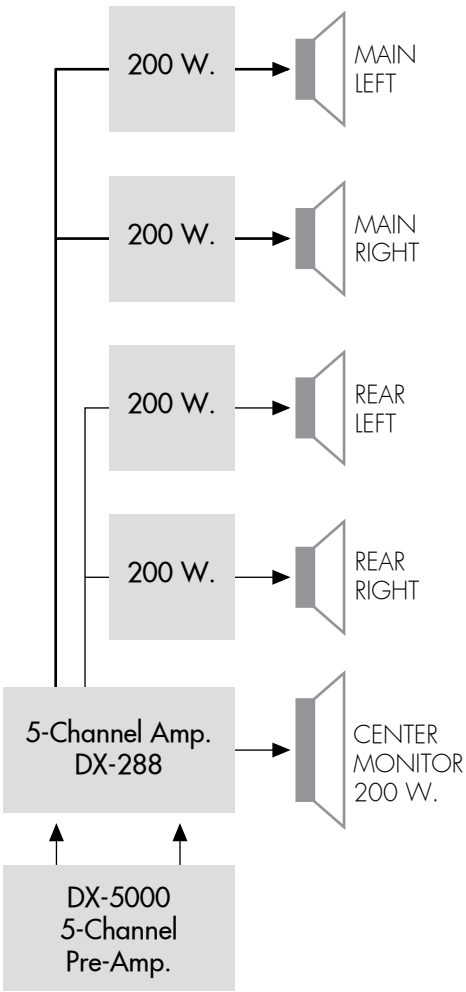
APPLICATIONS



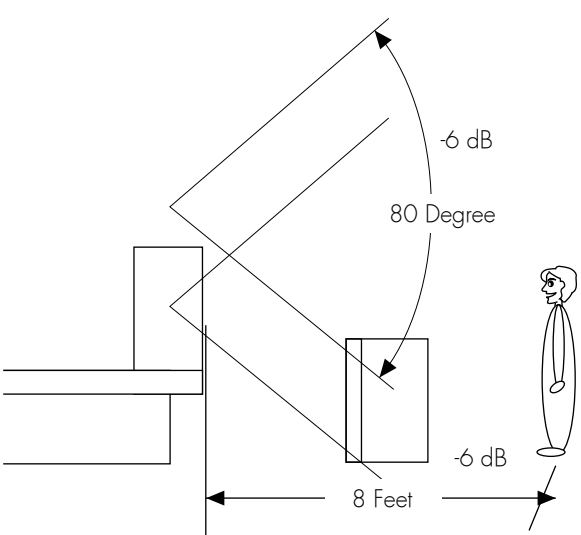
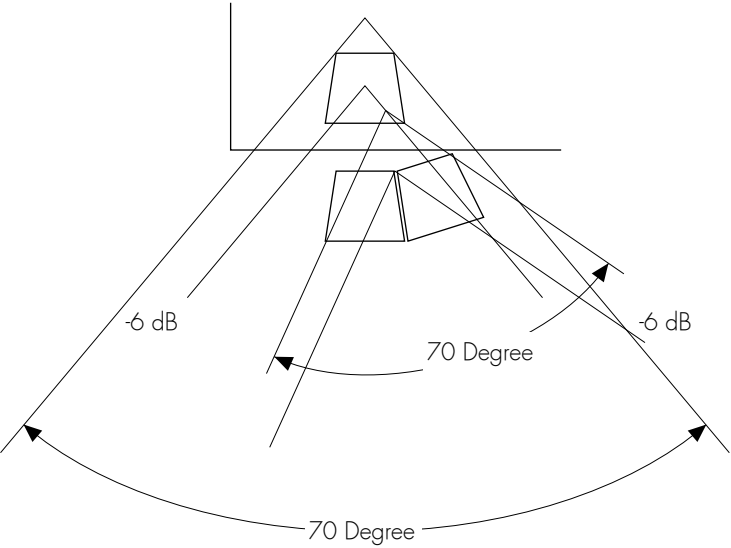
2-Way Speaker



3-Way Speaker



5-Way Speaker





Passionate about Music
www.BetterMusicBuilder.com